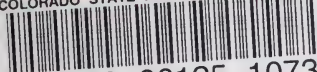


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STATE OF COLORADO



1959

ANNUAL REPORT

COAL MINE INSPECTION DEPARTMENT



STATE OF COLORADO



1959

ANNUAL REPORT

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LETTER OF TRANSMITTAL

April 1, 1960

To His Excellency
Steve McNichols
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Department of Colorado, for the year ending December 31, 1959.

Respectfully,

THOMAS ALLEN
Chief Inspector of Coal Mines

PERSONNEL OF DEPARTMENT

CHIEF COAL MINE INSPECTOR - THOMAS ALLEN

Office-306 State Services Bldg.
Denver 3, Colorado
Telephone - AC 2-9911,
Ext. 2616

Home -1285 Albion St., Denver 20
Telephone - FR 7-5572

DEPUTY INSPECTORS - (Counties within each district)

Dist. #1 - DONALD HASKE, 4561 Perry St., Denver 12
(Boulder, El Paso, Fremont, Jackson and Weld)
Telephone - GR 7-9295

Dist. #2 - OSCAR RICE, 401 State Street, Trinidad
Telephone - Victor 6-2634
(Huerfano and Las Animas)

Dist. #3 - GRANT McCONNELL, P.O. Box 385, New Castle
Telephone - New Castle 4271
(Garfield, Moffat, Pitkin, Rio Blanco and Routt)

Dist. #4 - JOHN J. RODDY, 1404 White Avenue, Grand Junction
Telephone - CHapel 2-5915
(Archuleta, Delta, Gunnison, La Plata, Mesa,
Montezuma, Montrose and San Miguel)

GENERAL OFFICE

Administrative Assistant	Veda Burford 1610 Magnolia St., Denver 20 FRemont 7-4317
Account Clerk	Evelyn Miller 3357 W. 36th Ave., Denver 11
Clerk-Stenographer	Marjorie A. Thompson 1203 So. High St., Denver 10

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

Thomas Allen, Chief Inspector - 306 State Services Bldg., Denver 3
Fred W. Whiteside, E., M., Secretary - 356 Lafayette St., Denver 18
William H. Lloyd - 1228 West Second Street, Florence
Charles C. Mack - 894 Tucker Street, Craig
John Sebben - Rte. 1, Box 361, Trinidad

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INTRODUCTORY COMMENTS

A decrease of 10 operating mines employing 170 less men, produced an increase of 321,495 tons of coal in 1959 over the previous year of 1958.

Three Deputy Coal Mine Inspectors were certified by the State Civil Service Commission on January 14, 1959, and after a week of indoctrination in the office of the Chief Inspector, proceeded to their assigned districts. The examinations were prepared and conducted by the Commission with the assistance of a Board of qualified mining engineers and miners.

The Edna Coal Company started production at the new Navajo Strip Mine in Montrose County near Nucla, in June, 1959. Coal is trucked about $6\frac{1}{2}$ miles to the Colorado-Ute Electric Plant east of Nucla.

AMENDMENTS TO THE STATE COAL MINING LAWS IN 1959

SECTION 8, Page 5. Substitute the salaries of the Board of Examiners to read: Members to receive \$25.00 per day; and the coal mining engineer to receive \$30.00 per day for each day of actual service on the Board. Approved March 20, 1959.

SECTION 46 (a), Page 30. Substitute the following: "Any mine in which methane has been ignited or has been found by a permissible flame safety lamp or by air analysis in an amount of 0.25 of 1% or more shall be classed as gassy, provided, however, that where mines are operated in an area known by the Chief Inspector to be gassy, he shall be authorized to classify any such mines as gassy for the safety of the employees, and the preservation of property."

Approved by the Governor: April 6, 1959

EXPLOSION -

An explosion occurred at the Dutch Creek Mine in Pitkin County on Saturday, August 15, 1959, when no men were inside the mine. The three surface men were repairing the fan motor drive coupling with an acetylene torch which ignited an accumulation of methane in the fan house. The ignition extended into the return air course, resulting in an explosion inside the mine which caused extensive damage.

The mine did not operate until all conditions of the mine and equipment were restored for safe operation, under the direct

supervision of the State and Federal Inspectors. The mine was released for operation on September 26.

MINE FIRES

A fire occurred on December 21 at the Washington Mine in Weld County on the main intake in-by the South rock tunnel. The fire area was sealed and ventilation re-established. The effected area could not be examined, but from available information, the fire was caused from short circuit of electric power lines. The mine was released for safe operation on January 10, 1960.

A surface fire which ignited the conveyor belt at the Thompson Creek #1 Mine in Pitkin County on April 17, was quickly extinguished with little loss of property and loss of only one shift of work.

A fire of unknown origin at the Somerset Mine in Gunnison County on July 23, completely destroyed the lamp room, bath house, check room and the carpenter shop.

On December 4, the tipple at the White River Mine in Rio Blanco County, was destroyed by a fire of unknown origin, but was apparently the result of some welding done on the tipple the previous afternoon.

A requested examination for Coal Mine Officials was held in Denver on November 14, 1959, with 23 candidates. Three Mine Foreman certificates were issued, one Assistant Mine Foreman, and nine Fire Boss. Two Fire Boss certificates were held for required residence in the State and one for first aid training. Only two candidates did not qualify for papers. A complete list of successful candidates is on page 28.

HONOR ROLL FOR 1959 - 50,000 or more man-hours per injury

<u>Mine</u>	<u>Company</u>	<u>County</u>	<u>Fatal</u>	<u>Non-Fatal</u>	<u>Man-Hours Per Injury</u>
Frederick	C. F. & I Corp.	Las A.		1	304,250
Allen	C. F. & I. Corp.	Las A.		4	148,345
Washington	Clayton Coal	Weld		1	107,918
Dutch Creek	Mid-Continent C&C	Pitkin		1	98,928
Bould. Valley #3	Boulder Valley Coal	Weld		0	83,672
Osage Strip	P. & M. Coal Mng.	Routt		1	62,259
Lincoln	Clayton Coal	Weld		1	60,435
Eagle	Imperial Coal	Weld		2	55,564

<u>HONORABLE MENTION - 20,000 to 50,000 man-hours per injury</u>						
<u>Mine</u>	<u>Company</u>	<u>County</u>	<u>Fatal</u>	<u>Fatal</u>	<u>Non-</u>	<u>Man-Hours</u>
						<u>Per Injury</u>
Sterling	McNeil Coal Corp.	Weld		1		49,841
Somerset	Minerals Dev. Corp.	Gunn.		2		48,945
Edna Strip	Edna Coal	Routt		0		46,038
Cameo	Kerr Coal	Mesa		2		35,483
Hawk's Nest	Champion Coal Mng.	Gunn.		1		34,021
Red Wing	Colowyo Coal	Moffat		2		29,343
Thompson Crk. #1	Thompson Crk. C&C	Pitkin		4		29,126
Pioneer Canon #1	Corley Co., The	Fremont		1		27,685
Calumet #2	Delcarbon Coal	Huerf.		1		21,462
Imperial	Imperial Coal	Weld		1		21,294

SUMMARY OF FIELD WORK

Number of inspections	682
Complaints investigated	37
Mines closed for violations	17
Fatal accidents investigated	3
Examinations for Shot Firers	32

FINANCIAL STATEMENT FOR THE CALENDAR YEAR

RECEIPTS

Cash Balance, January 1, 1959		\$ 6,282.08
Coal Tax	\$22,547.63	
License Fees	5,470.00	
Misc.-Vault Rent, Law Books Sold	214.50	
General Fund Appropriation	32,759.68	
Total		60,991.81
		<u>\$67,273.89</u>

EXPENDITURES

Salaries-Field, Office, Board of Examiners	49,348.61	
Travel-Hotel, Meals, Gasoline, etc.	6,023.26	
Rent-Field & Office	2,665.90	
Equipment-Field & Office	1,963.55	
Insurance-Workmen's Comp., Cars, Surety Bonds	1,647.92	
Telephone & Telegraph	1,400.82	
Office Supplies & Maintenance	798.90	
Postage & Express	310.32	
Printing	255.22	
Total		64,414.50
Cash Balance, January 1, 1960		<u>\$ 2,859.39</u>

GENERAL SUMMARY OF THE COLORADO COAL STATISTICS FOR 1959

MINES REPORTING PRODUCTION - Mechanized 86, Pick 36, Strip 8 130
 PRODUCTION IN SHORT TONS 3, 293, 686

GRADES		SIZES		
Bituminous	2, 383, 413	Mine Run	702, 368	Pea 757, 715
Sub-Bituminous	911, 273	Lump	191, 460	Slack 1, 432, 060
		Nut	42, 169	Miscellaneous 10, 747
		Egg	157, 167	

TONNAGE BY MINING METHODS

MINED - Electric undercutting machines	1, 592, 383
Solid pick	415, 696
LOADED - Mechanically, using no or very little hand labor	1, 482, 037
Hard-loaded onto mechanical loaders	177, 288
Hand-loaded into pit cars	348, 154
CUT AND LOADED BY CONTINUOUS MINING MACHINES	740, 681
STRIPPED - OPEN PITS	545, 526

SHIPMENT AND DISPOSAL Direct to Power Plants by Conveyors

Shipped by rail	2, 313, 065	Cameo to Public Service	71, 960
Shipped by truck	891, 540	Oliver # 3 to Western Colo. Power	6, 996
Used for power and heat at the mines	10, 125	Shipped out of State	581, 682
COKE TONNAGE - (Dutch Creek - 25 ovens, coal used - 11, 400 tons.)			
MEN EMPLOYED - (Average number)	Underground 1, 366, Surface 443, Strips	136	8, 500
DAILY PRODUCTION PER MINER			1, 945
DAYS WORKED - (Average number per mine)			11
DAILY CAPACITY OF ALL MINES (as reported)			156
UNDERGROUND MECHANICAL & ELECTRIC EQUIPMENT - See Pages 24 and 25			29, 909
MINING MACHINERY-Electric Undercutting	200 Drills-Electric	280	
Electric Shearing	1 Drills-Compressed Air	85	
Combination	11		

MECHANICAL LOADERS - Shakers	107	Mainline conveyors	25
Mobile	60	Chain conveyors	31
Power shovels	2	Portable conveyors	1
CONTINUOUS MINING MACHINES - Undercutting and loading	- 15		

HAULAGE MACHINERY

Locomotives
Electric Trolley 73 Hoists
Electric Battery 55 Electric 96
Electric Cap 3,355 Diesel 1

Shuttle Cars 89

LAMPS - Flame Safety 465, STRIP MACHINERY & EQUIPMENT

Bulldozers - 11 Drag lines - 5 Power shovels - 5
 Caterpillars - 6 Jackhammers - 9 Scarifiers - 2
 Compressors - 6 Drills - 8 Tractors - 8
 Carryalls - 4 Loaders - 5 Trucks - 23
 Motor graders - 1

EXPLOSIVES (Pounds)	Dynamite	Special	Cardox	Airdox	Totals
Underground Mines	16,800	14 Mines	2 Mines		651,420
Strip Mines	49,900	562,020			671,560
	66,700	562,020			1,322,980

SURFACE & MISCELLANEOUS

Hoists: Gas	- 14	Steam	- 2	Electric	- 50
Tipplers: Gravity	- 40	Mechanical	- 67		
Ventilation fans: Exhaust	- 65	Force	- 33		
Coal Washing Plants	- 3	Steam Plants	- 12	Box Car Loaders	- 38
Pumps: Electric	- 185	Compressed air	- 7	Bath Houses - 23	Showers - 402
Air Compressors: Underground	- 23	Surface	- 39	Rock Dusting Machines	- 46
Telephones	- 190	Gravity Planes	- 1	Aerial Trams	- 1
Battery Charging Stations	- 37				

SAFETY EQUIPMENT

Self-rescuers - 332 Oxygen breathing apparatus (McCaa & Chemox) - 27
 Inhalators - 4 Gas Masks - 20

GENERAL INFORMATION

Shaft Mines - 5 Rock Slopes - 20 Rock Tunnels - 5 Drifts - 65 Coal Slopes 32
 Tons of coal chemically treated - 245,438 Tons of coal washed - 8, 754
 Number of Mines: On Railroads - 22 Roof-bolted - 24

ACCIDENTS - See Page 27

Total number: Fatalities - 2 Widows - 1, Children - 3
 Non-fatalis - 63

D I R E C T O R Y

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Aguilar Imperial C.	Trinidad	Aguilar Imp.	Same	Las A.
Advidrez & Sons C.	Florence	Black Knight #3	"	Fremont
Annex Coal	"	Annex	"	"
Baca-Vigil Coal	Valdez	Baca-Vigil	"	Las A.
Babson Coal	Hayden	Babson	"	Routt
Barstow, Aul & Peterson	Palisade	Blue Flame	Same	Mesa
Bear Coal	Somerset	Bear	"	Gunnison
Beer Coal & Const.	Florence	Beer Strip	"	Fremont
Bendetti, Henry & Louis	Glenwood Spgs.	New South Canon	"	Garfield
Berwind Canyon Coal	Trinidad	Berwind Canyon	"	Las A.
Bisulco, Alex	Aguilar	Bisulco	Same	Las A.
Black Beauty Coal	Walsenburg	Black Beauty	"	Huerfano
Blue Blaze Coal	"	Black Hawk #2	"	"
Blue Ribbon Coal	Paonia	Blue Ribbon	"	Delta
Boscia Coal	Oak Creek	Apex	"	Routt
Boulder Valley Coal	Denver	Boulder Val. #3	Dacono	Weld
Bowman's Coal	Trinidad	Bowman's	Same	Las A.
Brodhead Coal	Trinidad	Brodhead #4-A	"	" "
Brooks, Ira T.	Cedaredge	Green Valley #2	"	Delta
C. F. & I. Corp.	Pueblo	Allen	Weston	Las A.
C. F. & I. Corp.	Pueblo	Frederick	Valdez	Las A.
Caldirola Fuel	Florence	Caldirola #2	Same	Fremont
Caldwell, Earl	Waldon	Marr	"	Jackson
Can. Blk. Diam. Coal	Florence	Can. Blk. Diam.	"	Fremont
Can. National Coal	"	Canon National	"	"
Casias, Eloy	Trinidad	Berwind #4	Same	Las A.
Cason, Vernon	Durango	Blue Flame	"	La Plata
Champion Coal Mng.	Somerset	Hawk's Nest	"	Gunnison
Clarke Coal	Palisade	Winger	"	Mesa
Clayton Coal	Denver	Lincoln	Erie	Weld

RAILROADS - OPENINGS - SEAMS

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel				
				Length					
Robert Fabec		50				Yes	5	10	5%
C. Alvidrez		5				Yes	5		3%
Mike Rocchio		23				Yes	4	6	7%
Pete Vigil		5				Yes	4		
Shirl Prewitt		6				Yes	10	6	16%
W. S. Barstow		20				Yes	5	6	3%
W. A. Bear	D&RG	475			300		6		3-4%
Lloyd J. Beer		100	S T R I P				2	10	6%
Henry Bendetti		25			25		5		57°
Ole Madsen		15				Yes	4	8	
Alex Bisulco		5					4		6%
Mariano Pesina		10				Yes	4		2%
Albert Amiday		5					2	8	6%
Dean Allen		35				Yes	6		5%
Angelo Boscia		20				Yes	4	6	4%
Thomas Harris	U. P.	1,000	245				7		
John Bowman		2				Yes	2	10	
Sam Vasquez		20					3	6	3%
Ira T. Brooks		50		150			5	6	5%
Lloyd W. Ingles	C&W	3,500		1,578(E)	(W)	Yes	5		2-30%
F. C. Bennett	C&W	2,000				Yes	3-4		
Fred DelDuca		50		480			4	8	5%
Earl Caldwell		10					50		45°
Frank Yellico		75					6	7	6%
Raymond Jermance		100					5	6	
Eloy Casias		2				Yes	4		1%
Vernon Cason		10				Yes	6		2%
Ralph Audin	D&RG	300		300			8		2%
R. M. Clarke		8					4	6	5%
Wm. Ferguson	U. P.	1,500		1,800			9		

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Clayton Coal	Denver	Washington	Erie	Weld
Coal Crk. Can. Mng.	Florence	Coal Creek Canon	Same	Fremont
Coles, W. E.	New Castle	New Castle-Vulcan	"	Garfield
Colowyo Coal	Denver	Red Wing	Craig	Moffat
Corley Co., The	Colo. Springs	Corley Strip #1	Florence	Fremont
Corley Co., The	Colo. Springs	Pioneer Canon #1	Same	Fremont
Corley Co., The	Colo. Springs	Pioneer Canon #2	"	"
Delcarbon Coal	Walsenburg	Calumet #2	"	Huerfano
Double Dick Coal	Florence	Double Dick	"	Fremont
Dry Creek Coal	Hayden	Cardinal	"	Routt
Dry Creek Coal	Hayden	Old Quaker Strip	Same	Routt
Eagle Head Coal	Grand Junction	McGinley	Fruita	Mesa
Edna Coal	Denver	Edna Strip	Oak Creek	Routt
Edna Coal	Denver	Navajo Strip	Nucla	Montrose
Ellis Coal	Somerset	Black Beauty	Same	Gunnison
Emmons, Bros. Coal	Paonia	Emmons	Same	Delta
Fogg, Lyndon H.	Cedaredge	Red Canon #1	"	"
Four Mile Coal	Carbondale	Four Mile	"	Garfield
Franceville Coal	Colo. Springs	Franceville Str.	"	El Paso
Garcia, Joe & Della	Trinidad	Anchor #2	"	Las A.
Giuliano & Sons Coal	Florence	Cedar Canon	Same	Fremont
Golden Quality Coal	Florence	Golden Quality #4	"	"
Grey Creek Coal	Trinidad	Grey Creek #4	"	Las A.
Guadagnoli Bros.	Trinidad	Engleville	"	" "
Haas, William, Jr.	Rifle	Black Raven	"	Garfield
Hastings, Coal	Trinidad	Hastings #6	Same	Las A.
Hay Gulch Coal	Hesperus	Hay Gulch #2	"	La Plata
Hicks, Jene	Grand Junction	Hidden Treasure	Fruita	Mesa
Hunt, Wm. M.	Durango	Burnwell #1	Same	La Plata
Imperial Coal	Denver	Eagle	Erie	Weld

Superintendent	R.R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel				
				Length					
William Ferguson	U.P.	1,500	430				9		
Steve Kopic		50				Yes	6	6	5°
W. E. Coles		50			1,500		7	6	48°
J. Arthur Haske		900		125			23		3-6%
T. E. Shelnutt		600		S T R I P			8	4	8%
T. E. Shelnutt		600		200			5		8%
T. E. Shelnutt		500				Yes	8		
George Sudar	D&RG	100		700			4	2	4%
Joe Rohar		100					5	11	6-7%
E. R. Todd		250				Yes	12		7%
E. R. Todd		150		S T R I P			12		8%
Bryan Nichols		10				Yes	6	10	
R. O. Marsten	D&RG	1,800		S T R I P			4		6°
A. R. Ross		400		S T R I P			5		3°
Ellis Axelson		80				Yes	10	6	
John T. Emmons		30					8	8	4%
Lyndon H. Fogg		40		350			4	6	6%
R. C. Martin		20		250			8		40°
Lee Gordley		50		S T R I P			8		
Joe M. Garcia		5					5	6	
Mike Giuliano		100				Yes	6		2%
Dominic Carestia		75				Yes	6	6	3%
Lawrence Rivera		8				Yes	3	6	3%
Charles Guadagnoli		10				Yes	9		
William Haas, Jr.		20				Yes	12		67%
Pete Barajas		5					9		
W. C. Hunt		5				Yes	5	10	3°
Jene Hicks		25				Yes	3		9%
William M. Hunt		10				Yes	6	4	3°
Frank Kolar	U.P.	1,500	370				9		1½%

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Imperial Coal	Denver	Imperial	Erie	Weld
Iuppa & Son Coal	Trinidad	Starkville #4	Same	Las A.
Jenkins & Mathis Coal	Meeker	Rienau	"	Rio B.
Joe's Coal	Oak Creek	Joe's	"	Routt
Juanita Coal & Coke	Bowie	King	"	Delta
Kerr Coal	Cameo	Cameo	Same	Mesa
King Coal	Hesperus	King	"	La Plata
Leader Coal	Sopris	Leader #3	"	Huerfano
Liberty Mining	Canon City	Canon Liberty #3	"	Fremont
Lovisone & Colarelli	Canon City	L. & C. #2	"	"
Major Coal	Walsenburg	Major #2	Same	Huerfano
Major Coal	Walsenburg	Pioneer	"	"
Martinez, Albert	Cokedale	Martinez	"	Las A.
Mathews, John	Oak Creek	Johnnie's	"	Routt
Mays, W. E.	Hesperus	Burnwell #2	"	La Plata
McNeil Coal Corp.	Denver	Sterling	Dacono	Weld
Mid-Continent C. & C.	Carbondale	Dutch Creek	Same	Pitkin
Minerals Dev. Corp.	ColoSomerset	Oliver #3	"	Gunnison
Minerals Dev. Corp.	ColoSomerset	Somerset	"	"
Montez, Manuel H.	Trinidad	Delagua #3 $\frac{1}{2}$	"	Las A.
Montoya, Leo, Jr.	Trinidad	Nellie	Same	Las A.
Morning Glory Coal	Walsenburg	Morning Glory	"	Huerfano
Moschetti, N. J.	Canon City	Canon Zenith #2	"	Fremont
Nix, Ammon E.	Nucla	Independence	"	Montrose
North Fork Coal	Somerset	Edwards	"	Gunnison
Nu-Mine Coal	Gunnison	Nu-Mine #2	Same	Gunnison
Ortiz, Joe	Trinidad	Burro Canyon #3	"	Las A.
P & M Coal Mng.	Steamboat Spgs.	Osage Strip	"	Routt
Pantazes, Pete	Aguilar	Prosperity #2	"	Las A.
Paterson, Mack R.	Fruita	Hy-Grade	"	Mesa

Superintendent	R. R.	Daily Cap.	O P E N I N G S				S E A M		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel Length				
Frank Kolar	U. P.	900	300				10	6	
Albert Jappa, Jr.		22		300			3	6	
William Jenkins, Jr.		30				Yes	20		18°
Joe Petranovich		7				Yes	5	6	6%
Robert F. Bowie	D&RG	300					16		7%
Harold Kissell	D&RG	425			950	Yes	6		3°
Irvin A. Smith		25				Yes	6		5%
Charles E. Langowski		8				Yes	4		
Tony J. Smith		50		2,500			3	4	6%
Ted Colarelli		27					5		10%
Louis Bellotti		75		75			5	5	15%
Louis Bellotti		25					5	2	25%
Albert Martinez		2		50			2	6	
John Mathews		5					4	3	4½%
W. E. Mays		23				Yes	5-6		3%
A. W. Newcomb	U. P.	550	358				7	11	
Charles Rath		1,500				Yes	7		14°
Fritz Nyman	D&RG	250				Yes	7		6%
William O. Luoma	D&RG	1,000					8-9		6%
Manuel H. Montez		3			50		8		
Leo Montoya, Jr.		4				Yes	3	6	
G. M. Turner	D&RG	175					4	6	
Nick J. Moschetti		15					3	2	5%
A. E. Nix		12				Yes	4	6	6%
C. E. Pauley	D&RG	150				Yes	6		
Joseph E. Partch		150					6		3%
Joe Ortiz		3				Yes	5	6	
T. C. Dewey	D&RG	1,600		S T R I P			8		
Pete Pantazes		4		600			2	6	7°
Mack R. Paterson		20					3	6	15%

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Peacock Coal	Durango	Peacock	Same	La Plata
Peacock Coal	Trinidad	Peacock	"	Las A.
Peerless Coal	Durango	Peerless	"	La Plata
Phillips, H. B.	Palisade	Gearhart	"	Mesa
Pilcher, Oren A.	Mancos	Coal King #2	"	La Plata
Rainbow Coal	Trinidad	Rainbow	Same	Las A.
Rapson Coal	Walsenburg	Rapson #2	"	" "
Rasmussen, Wm.	Hesperus	Rasmussen	"	La Plata
Red Ash Coal	Walsenburg	Maitland #2	"	Huerfano
Red Glow Coal	Aguilar	Red Glow	"	Las A.
Rex Coal	New Castle	Rex	Same	Garfield
Rex Carbon Fuel	Florence	Rex Carbon	"	Fremont
Rice-Pinnacle Coal Corp.	Hayden	Rice-Pinnacle	"	Routt
Rifle Coal	Rifle	North Canyon	"	Garfield
Rosebud Coal Sales	Denver	Rosebud Strip	Coalmont	Jackson
Routt Mining Corp.	Oak Creek	Keystone	Same	Routt
Rugby Coal	Trinidad	Rugby #6	"	Huerfano
S & J Coal	New Castle	S & J	Rifle	Garfield
Scott & Johnson	Trinidad	Baldy #2	Same	Las A.
Silengo, Charles L.	Canon City	Canon Monarch #4	"	Fremont
Skinner Coal	Walsenburg	Gordon	Same	Huerfano
Smith, A. G.	Gunnison	Baldwin	"	Gunnison
Staples, S. L., Jr.	Gunnison	Ohio Creek #2	"	"
States Coal	Cedaredge	Top	"	Delta
Strainer Coal	Canon City	CanonWolf Creek #2	"	Fremont
Sun Coal	Hayden	Sun	Same	Routt
Supancic, Louis	Cameo	River View	"	Mesa
Thompson Crk. C&C Corp.	Denver	ThompsonCrk. #1	Carbondale	Pitkin
Thompson Crk. C&C Corp.	Denver	ThompsonCrk. #2	"	"
Thompson Crk. C&C Corp.	Denver	ThompsonCrk. #3	"	"

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft Depth	Rock Slope	Rock Tunnel Length	Drift	Ft.	In.	Pitch % - °
G. M. Gale		10				Yes	6		2%
Eugene Lopez		15				Yes	6		
Everett Bixler		15				Yes	4-5		10°
H. B. Phillips		28				Yes	5		
Oren A. Pilcher		10				Yes	6	6	
Nick Tapia		2				Yes	3	6	
James Christy		40		2,200			5		12%
William Rasmussen		15				Yes	5	6	4%
Clarence Clair		75				Yes	4	6	5%
Clifford Smith		2					3	8	7%
F. L. Prendergast		10				Yes	7	4	52°
Frank Sacchetta		70		450			3	10	12%
Frank Dowling		100				Yes	11		7-8°
Ernest A. Haas		20				Yes	8	6	80°
Mike Evans	U. P.	2,000		S T R I P			10-20		15-45°
Carl Steele	D&RG	50					5	10	17%
Michael A. Nicola		12		400			4		13°
Leland Stewart		30				Yes	10		56°
D. A. Johnson		6				Yes	5	6	
Charles L. Silengo		90					5	6	6%
Tony Just	D&RG	150					4		5°
A. G. Smith		10				Yes	6		
S. L. Staples, Jr.		7					5		
W. W. States		60		180			7		6%
Anton Strainer, Jr.		30				Yes	6	6	3%
Thomas E. Barton		6				Yes	6		15%
Louis Supancic		25				Yes	6		
Andrew Allan		500				Yes	7		30°
Andrew Allan		100				Yes	7		30°
Andrew Allan		250				Yes	9		30°

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Thompson Crk. C&C Corp.	Denver	Thompson Crk. #5	Carbondale	Pitkin
Tolley, C. A. & E.	New Castle	Harvey Gap #3	Same	Garfield
Tomahawk Coal	Delta	Tomahawk	"	Delta
Twin Pines Coal	Canon City	Twin Pines	"	Fremont
Vento Coal	Florence	Vento	"	Fremont
Victory Coal	Durango	Victory #3	Same	La Plata
Walck, Clay	Glenwood Spgs.	Marion #2	"	Garfield
White River Fuel	Vernal, Utah	White River	Rangley	Rio B.
Wright Fuel	Hesperus	Wright #1	Same	La Plata
Zellitti, F., N. & C.	Durango	Morning Star	"	" "

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel				
				Length					
Andrew Allan		15				Yes	9		30°
C. A. Tolley		15				Yes	7		45°
Gene Yellico		60		1,600			11		6%
Budgie C. Fazzino		38					6		4%
Tony Vento		100					5	10	5%
William Gerard		75					3-6		5%
Clay Walck		4					5		46%
M. E. Staley		45				Yes	10	8	8%
Glen Wright		15				Yes	5		1%
Frank Zellitti, Jr.		25				Yes	5	10	7%

REPORT OF PRODUCTION

MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
<u>DELTA</u>						
Blue Ribbon	Blue Ribbon Coal	4	135	4,770		
Emmons	Emmons Brothers Coal	9	120	2,565		
Green Valley #2	Ira T. Brooks	4	190	7,206		
King	Juanita Coal & Coke	19	189	43,670		3
Red Canon #1	Lyndon H. Fogg	3	219	4,517		
Tomahawk	Tomahawk Coal	4	135	4,343		
Top	States Coal	3	153	2,480		
TOTALS - 7		46	1,141	69,551	-	3
<u>EL PASO</u>						
Franceville Strip	Franceville Coal	3	144	4,392		1
TOTALS - 1		3	144	4,392	-	1
<u>FRÉMONT</u>						
Annex	Annex Coal	3	139	2,617		
Beer Strip	Beer Coal & Const., Inc.	4	248	26,608		
Black Knight #3	C. Alvidrez & Sons	4	53	849		1
Caldirola #2	Caldirola Fuel	5	234	8,974		
Canon Black Diamond	Canon Black Diamond Coal	5	203	19,180		
Canon Liberty #3	Liberty Mining	4	174	5,867		
Canon Monarch #4	Charles L. Silengo	5	235	11,703		
Canon National	Canon National Coal	6	270	16,408		
Canon Wolf Creek #2	Strainer Coal	6	256	5,495		
Canon Zenith #2	N. J. Moschetti	4	204	3,036		
Cedar Canon	Giuliano & Sons Coal	6	185	12,846		1
Coal Creek Canon	Coal Creek Canon Mining	5	229	13,255		

Corley Strip #1	Corley Company, The	15	60	17,846		
Double Dick	Double Dick Coal	6	236	8,697		2
Golden Quality #4	Golden Quality Coal	5	255	13,176		
L & C #2	Lovison & Colarelli	5	174	2,838		1
Pioneer Canon #1	Corley Company, The	16	45	5,870		1
Pioneer Canon #2 (New)	Corley Company, The	16	210	58,655		
Rex Carbon	Rex Carbon Fuel	5	269	11,920		1
Twin Pines	Twin Pines Coal	4	267	9,794		
Vento	Vento Coal	10	242	25,342		
TOTALS - 21		139	4,188	280,976	-	9
GARFIELD						
Black Raven	William Haas, Jr.	2	199	2,804		
Four Mile	Four Mile Coal	2	283	2,992		
Harvey Gap #3	C. A. & Eileen Tolley	3	181	1,814		
Marion #2 (Closed)	Clay Walck	3	21	220		
New Castle-Vulcan	W. E. Coles	4	183	5,000		
New South Canon	H. & L. Bendetti	3	240	1,886		
North Canyon (Closed)	Rifle Coal	4	106	2,076		
Rex	Rex Coal	3	56	421		
S & J (IH#3)(Closed)	S & J Coal	3	33	199		
TOTALS - 9		27	1,302	17,412	-	-
GUNNISON						
Baldwin	A. G. Smith	2	113	797		3
Bear	Bear Coal	38	165	54,228		1
Black Beauty	Ellis Coal	10	161	10,210		2
Edwards	North Fork Coal	12	189	25,543		1
Hawk's Nest	Champion Coal Mining	25	173	43,120		2
Nu-Mine #2	Nu-Mine Coal	11	229	17,664		
Ohio Creek #2	S. L. Staples, Jr.	3	275	2,728		
Oliver #3	Minerals Dev. Corp. of Colo.	23	103	21,201	1	
Somerset	Minerals Dev. Corp. of Colo.	79	141	88,318		2
TOTALS - 9		203	1,549	263,809	1	11

COUNTY	MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
						Fatal	Non-Fat.
HUEFANO	Black Beauty	Black Beauty Coal	4	226	2,352		
	Black Hawk #2	Blue Blaze Coal	2	42	388		
	Calumet #2	Delcarbon Coal	18	152	16,060		1
	Gordon	Skinner Coal	7	230	14,245		
	Leader #3	Leader Coal	3	147	1,241		
	Maitland #2	Red Ash Coal	9	216	9,669		1
	Major #2 (Closed)	Major Coal	5	81	1,424		
	Morning Glory	Morning Glory Coal	11	204	13,513		
	Pioneer	Major Coal	4	69	559		
	Rugby #6	Rugby Coal	4	124	1,243		
TOTALS - 10			67	1,491	60,694	-	2
JACKSON	Marr (Closed)	Earl Caldwell	2	39	276	1	1
	Rosebud Strip	Rosebud Coal Sales	25	93	113,454		
	TOTALS - 2		27	132	113,730	1	1
LA PLATA	Blue Flame	Vernon Cason	2	174	1,393		
	Burnwell #1	William M. Hunt	3	103	1,012		
	Burnwell #2	William E. Mays	3	139	3,151		
	Coal King #2	Oren A. Pilcher	2	187	1,740		1
	Hay Gulch #2	Hay Gulch Coal	1	183	1,031		
	King	King Coal	3	207	3,709		
	Morning Star	F., N., & C. Zellitti	2	191	2,279		
	Peacock	Peacock Coal	4	150	1,046		
	Peerless	Peerless Coal	1	54	274		
	Rasmussen	William Rasmussen	2	120	1,322		
	Victory #3	Victory Coal	5	257	11,106		1
	Wright #1	Wright Fuel	1	91	1,402		
TOTALS - 12			29	1,856	29,465	-	2

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
MESA (cont.)						
McGinley	Eagle Head Coal	3	135	1,734		
River View	Louis Suparcic	4	138	3,024		
Winger	Clarke Coal	2	84	981		
TOTALS - 8		64	1,190	90,126	-	2
MOFFAT						
Red Wing	Colowyo Coal	34	160	120,463		2
TOTALS - 1		34	160	120,463	-	2
MONTROSE						
Independence	Ammon E. Nix	3	189	1,676		
Navajo Strip (New)	Edna Coal	10	119	35,460		
TOTALS - 2		13	308	37,136	-	-
PITKIN						
Dutch Creek	Mid-Continent Coal & Coke	56	181	179,072		1
Thompson Creek #1	Thompson Creek C&C Corp.	76	176	87,363		4
Thompson Creek #2	Thompson Creek C&C Corp.	13	184	16,282		
Thompson Creek #3	Thompson Creek C&C Corp.	35	163	40,621		3
Thompson Creek #5	Thompson Creek C&C Corp.	2	18	97		
TOTALS - 5		182	722	323,435	-	8
RIO BLANCO						
Rienau	Jenkins & Mathis Coal	4	247	6,566		1
White River	White River Fuel	4	151	4,275		1
TOTALS - 2		8	398	10,841	-	2
ROUTT						
Apex	Boscia Coal	4	100	1,687		
Babson	Babson Coal	2	141	615		
Cardinal	Dry Creek Coal	11	213	36,016		1
Edna Strip	Edna Coal	39	101	152,677		
Joe's	Joe's Coal	2	80	221		
Johnnie's	John Mathews	2	139	201		
Keystone	Routt Mining Corp.	4	250	1,992		4
Old Quaker Strip	Dry Creek Coal	5	6	1,213		

Osage Strip	P & M Coal Mining	35	138	193,876		1
Rice-Pinnacle	Rice-Pinnacle Coal Corp.	21	11	1,061		
Sun	Sun Coal	1	65	136		
TOTALS - 11		126	1,244	389,695	-	6
WELD						
Boulder Valley #3	Boulder Valley Coal	43	207	120,993		2
Eagle	Imperial Coal	69	207	296,325		1
Imperial	Imperial Coal	22	122	46,045		1
Lincoln	Clayton Coal	34	218	98,435		1
Sterling	McNeil Coal Corp.	31	163	74,045		1
Washington	Clayton Coal	57	220	145,968		1
TOTALS - 6		256	1,137	781,811	-	6
GRAND TOTALS		1,945	20,272	3,293,686	2	63

COAL SHIPMENT AND DISPOSAL

COUNTY	RAILROAD	TRUCK	POWER & HEAT (At Mine)	OUT OF STATE	CHEM. TREATED
Delta	39,631	29,610	310	25,024	14,923
El Paso		4,392			2,500
Fremont	7,605	273,247	124	3,146	393
Garfield		17,412			7,145
Gunnison	198,699	56,058	* 2,056	135,506	45,416
Huerfano	15,526	45,168		13,311	10,278
Jackson	113,316	394	20		
La Plata	6,663	22,802			1,166
Las Animas	671,794	25,306	3,050	2,921	
Mesa		18,101	** 65		1,566
Moffat	103,962	16,501			55,086
Montrose		37,136			
Pitkin	222,604	100,831		309,967	
Rio Blanco	3,275	7,566		3,275	4,200
Routt	347,942	41,753		88,532	78,047
Weld	582,048	195,263	4,500		24,718
TOTALS	2,313,065	891,540	10,125	581,682	245,438

*Western Colorado Power Plant from Oliver #3, by conveyor- 6,996 T.

**Public Service Power Plant from Cameo, by conveyor- 71,960 T.

SIZES, GRADES, BY COUNTY

MINE RUN	LUMP	EGG	OTHER GRADES	NUT	PEA	SLACK
25,759	14,890		1,079	3,439	98	24,286
4,392						
135,205	22,690	51	1,999	6,477	6,668	107,886
5,000	1,912		243	534	253	9,470
110,001	30,764		1,860	7,765		113,419
1,560	9,181	10,900	256	7,999	2,595	28,203
372						113,358
20,219	3,609			489	115	5,033
6,148	3,596	1,515	181	673	669,738	18,299
502	3,503	64		1,010	178	84,869
	16,909	25,841				77,713
35,460	811			174		691
323,435						
	1,169			1,837		7,835
34,315	27,558	11,066	5,129	4,433	64,257	242,937
	54,868	107,730		7,339	13,813	598,061
702,368	191,460	157,167	10,747	42,169	757,715	1,432,060

MECHANICAL LOADING

COUNTY	Shaker Type	MECHANICAL LOADERS							Small Portable Conveyors	TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES (None or very little hand labor)
		Chain Conveyors		Mainline		Mobile				
		Short Face	Room Length	Belt	Chain	Track	Caterpillar Type			
Delta	3		1			4	3			54,824
El Paso										
Fremont	17	2	8		1		13	1		201,307
Garfield		2							1	
Gunnison	12		1	3			10			245,822
Huerfano	14	2	5		2					30,864
Jackson										
La Plata	4									3,709
Las Animas	6	1		10	3		10	1		434,459
Mesa	16									80,338
Moffat							2			120,463
Montrose										
Pitkin	18	5	2	3			2			40,718
Rio Blanco	2	1					3			10,841
Routt	11		1	1						38,874
Weld	4			2			13			219,818
TOTALS	107	13	18	19	6	4	56	2	1	1,482,037

COLORADO - 1959

TONS OF COAL HAND LOADED ONTO MECHANICAL DEVICES	MINING MACHINERY							TOTAL TONNAGE
	Undercutting	Electric Shearing Combination Undercutting and Electric Shearing	Electric Drills	Compressed Air Cutting Machines	Compressed Air Drills	Continuous Miners		
	8		2	12				69,551
								4,392
19,521	36		1	40			1	280,976
5,079	1			19		1		17,412
5,862	28		2	29				263,809
9,955	31			18				60,694
	1			1				113,730
11,106	15			12				29,465
17,496	9		5	27		75	2	700,150
981	19			18				90,126
	2			4				120,463
	1			2				37,136
103,645				23		9	2	323,435
	4			6				10,841
2,659	18			19				389,695
984	27	1	1	50			10	781,811
177,288	200	1	11	280		85	15	3,293,686

Mined & Loaded by Continuous Miners: Weld County - 561,009
Las Animas County - Not Reported
Pitkin County - 179,072
Fremont County - 600

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ECONOMIC RESEARCH

COAL PRODUCTION FROM 1864 THROUGH 1959

<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>
1864	500	1896	3,371,633	1928	9,921,585
1865	1,200	1897	3,565,660	1929	9,934,064
1866	6,400	1898	4,174,037	1930	8,238,094
1867	17,000	1899	4,826,939	1931	6,604,063
1868	10,500	1900	5,495,734	1932	6,616,525
1869	8,000	1901	6,021,405	1933	5,284,872
1870	4,500	1902	7,522,923	1934	5,251,003
1871	15,600	1903	7,775,302	1935	5,953,601
1872	68,540	1904	6,776,551	1936	6,868,801
1873	69,997	1905	8,989,631	1937	7,222,092
1874	77,372	1906	10,308,421	1938	5,730,291
1875	95,838	1907	10,965,640	1939	6,002,125
1876	117,666	1908	9,773,007	1940	6,673,359
1877	160,000	1909	10,722,490	1941	7,008,037
1878	200,630	1910	12,104,887	1942	8,131,764
1879	322,732	1911	10,197,595	1943	8,372,683
1880	375,000	1912	11,016,948	1944	8,202,401
1881	706,744	1913	9,268,939	1945	7,656,612
1882	1,161,479	1914	8,201,423	1946	5,928,823
1883	1,220,593	1915	8,715,397	1947	6,381,016
1884	1,130,024	1916	10,522,185	1948	5,682,512
1885	1,398,796	1917	12,515,305	1949	4,578,170
1886	1,436,211	1918	12,658,055	1950	4,274,887
1887	1,791,735	1919	10,406,543	1951	4,111,945
1888	2,185,477	1920	12,514,693	1952	3,643,523
1889	2,400,629	1921	9,141,947	1953	3,598,867
1890	3,075,781	1922	10,003,610	1954	2,922,365
1891	3,512,632	1923	10,336,735	1955	3,366,490
1892	3,771,234	1924	10,501,088	1956	3,303,661
1893	3,947,056	1925	10,440,387	1957	3,324,787
1894	3,021,028	1926	10,616,760	1958	2,972,191
1895	3,339,495	1927	9,781,580	1959	3,293,686

FATAL ACCIDENTS

Date	Name	Mine	County	Cause	Occupation	Age	Exp.
3- 5	Olaf Alvin Alving	Marr	Jackson	Roof fall	Loader	49	9 wks.
11-27	George Lee Gallob	Oliver	Gunn.	Roof fall	Driller	44	3 mo.

NOT CHARGED TO THE INDUSTRY

11-16	Louis Ciani	CrowBar	Roult	Heart	Salvage	59
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FIVE YEAR COMPARISON

<u>NON-FATALS</u>						<u>FATALS</u>				
1955	1956	1957	1958	1959	Causes of Injury	1955	1956	1957	1958	1959
10	9	9	9	12	Falls of roof	5	1		1	2
4	6	7	2	6	Fall of face or rib		1			
15	6	8	12	7	Falling objects					
5	5	5	4	4	Falls of persons				1	
6	12	8	11	7	Handling materials					
6	8	5	6	2	Hand tools					
4		1	3	1	Striking vs objects					
15	10	15	15	1	Haulage					
	3				Explosion of gas					
	5	1	1	3	Explosives					
2	4		1	1	Electricity					
13	13	14	17	8	Machinery	1				
3	1	2	4	2	Jack pipes					
1	1	1			R. R. cars	2				
1	1				Others					
85	84	76	85	63	TOTALS	8	2	0	2	2

ACCIDENT STATISTICS

	<u>Fatalities</u>		<u>Non-Fatals</u>	
	1958	1959	1958	1959
Fatalities	2	2		
Non-Fatals/Compensable			85	63
Per 1,000 employed	0.090	0.103	38.37	32.39
Men employed per injury	1,107	973	26.06	30.87
Tonnage per injury	1,486,096	1,646,843	34,966	52,281
Per million tons	0.673	0.607	28.60	19.12
Dependents: Widows	2	1		
Children	0	3		

Successful Candidates in Examination for Coal Mine Officials

November 14, 1959

<u>Mine Foreman</u>	<u>Fire Boss</u>	<u>Additional Rating After Fire Boss Experience</u>
Fazzino, Budgie C.	Abelin, Magnus	
Lindeman, Harold B.	Amiday, James C.	
Storrs, John Paul	Del Duca, Fred	
	Emmons, John Ted	
<u>Asst. Mine Foreman</u>	Emmons, Maurice	
Bendetti, Henry	McKinnon, Charles R.	Mine Foreman
	Mortensen, Harold G.	Asst. Mine Foreman
	*Rowley, Fred R.	Mine Foreman
	Selan, Edward	Mine Foreman
	Silengo, Charles L.	Asst. Mine Foreman
	(Held for 1st Aid training)	
	Wareham, Max	Asst. Mine Foreman
	*Wilcox, Delbert L.	Asst. Mine Foreman

* - Held for required residence in Colorado

Strip Pit Mine Foreman

Baker, Clifford Leon
Evans, Mike
Lindeman, Harold Burns
O'Brien, Leo J.
Storrs, John Paul

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

Thomas Allen, Chief Inspector - 306 State Services Bldg., Denver 3
Fred W. Whiteside, E. M., Secretary - 356 Lafayette St., Denver 18
William H. Lloyd - 1228 West Second Street, Florence
Charles C. Mack - 894 Tucker Street, Craig
John Sebben - Rte. 1, Box 361, Trinidad



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